	STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING  FORM 3  AMENDED REPORT  I													
	APPLICATION FOR PERMIT TO DRILL									1. WELL NAME and NUMBER Ute Tribal 08-16				
2. TYPE OF W		LL NEW WELL 📵	) REENTER P	&A WELL	. DEEPI	EN WELL (	<u> </u>			3. FIELD (	OR WILDCAT	NTELOPE CREE	EK	
4. TYPE OF W		Oil W			ane Well: NO					5. UNIT o	r COMMUNITI	ZATION AGRE		AME
6. NAME OF	OPERATOR	<u> </u>								7. OPERA	TOR PHONE			
8. ADDRESS	PETROGLYPH OPERATING CO 208 685-7674  8. ADDRESS OF OPERATOR 960 Broadway Ave, Ste 500, Bosie, ID, 83703  bwest@pgei.com													
	LEASE NUMBER		oadway Ave, Sie	11. MI	NERAL OWNE	RSHIP			I		ACE OWNERS	IIP	_	
		)-H62-3507	00'\	FED	ERAL   I	NDIAN 📜	) STATE	) FEE(	_	FEDERA	AL INDI		ATE ()	FEE ()
15. ADDRESS	S OF SURFACE O	WNER (if box 12	= 'fee')							16. SURF	ACE OWNER	E-MAIL (if bo	12 = 'fee'	')
17. INDIAN A (if box 12 = '		BE NAME			IPLE FORMAT	IONS	PRODUCTION		_	19. SLAN		CTIONAL (	HORIZO	ONTAL (
20. LOCATIO	ON OF WELL		F	OOTAGE	ES	Q	TR-QTR	SECT	TION	тои	VNSHIP	RANGE		MERIDIAN
LOCATION	AT SURFACE		726	SL 440	) FEL		SESE	8		5	i.0 \$	3.0 W		U
Top of Uppe	ermost Producing	g Zone	726	SL 440	FEL		SESE	8		5	.0 S	3.0 W		U
At Total De	pth		726	SL 440	) FEL		SESE	8		5	.0 S	3.0 W		U
21. COUNTY		HESNE		22. DI	STANCE TO N		EASE LINE (Fee	et)	2	23. NUMB	ER OF ACRES	640	UNIT	
					STANCE TO N ied For Drillin	g or Com	VELL IN SAME F pleted) 735	POOL		26. PROP	OSED DEPTH MD:	6260 TVD:	6260	
27. ELEVATION	ON - GROUND LE	<b>VEL</b> 188		28. BC	OND NUMBER	LP41	138153				CE OF DRILLI IGHTS APPRO		IF APPLIC	ABLE
					Hole, Casir		Cement Infor	mation						
String	Hole Size	Casing Siz	e Leng	th	Weight	Grad	le & Thread	N	lax Mud	l Wt.	Cement	Sacks	Yield	Weight
COND	20	14	0 - 4	10	5.0		Jnknown		10.0	)	Class G	25	1.17	15.8
SURF	12.25	8.625	0 - 4		24.0		-55 ST&C				Class G	220	1.17	15.8
PROD	7.875	5.5	0 - 6	260	15.5	J	-55 LT&C	_	10.0 Class G Class F			483 331	1.92	12.5
						ATTACI	HMENTS				Oldoo I	001	1.10	10.1
	VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES													
<b>W</b> ELL	PLAT OR MAP PR	REPARED BY LIC	ENSED SURVEY	OR OR E	NGINEER		<b>✓</b> COMP	LETE DRI	LLING PL	-AN				
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER								
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)  TOPOGRAPHICAL MAP														
NAME Ed Trotter TITLE Agent						t			PHONE	435 789	-4120			
·					<b>DATE</b> 01/3	1/2012			EMAIL	edtrotter@	easilink.com			
<b>АРІ NUMBE</b> 4301	R ASSIGNED 3512100000	0			APPROVAL				E	) Delection	EULL			
			Permit Manager											

## CONFIDENTIAL

# EIGHT POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 08-16 SE SE, SEC 8, T5S, R3W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation		Subsea		MD
Surface Formation= <b>Uinta</b>				
Unita		6187		0
Green River		4490		1713
Trona		3330	•	2873
Mahogany Shale	3196		3007	
"B" Marker	_ =	2085		4118
"X" Marker	Waterflood Unit Interval	1595		4608
Douglas Creek Marker	_ fr aff	1450		4753
"B" Limestone		1059		5144
Base Castle Peak Limestone	> 5	497		5706
BSCARB		96	X Y	6107
Wasatch		-170		NDE
Rig TD		-57		6260

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

<u>Substance</u>	<b>Formation</b>	<b>SUBSEA</b>	MD
Base of moderately saline			
ground water*	Uinta	6100	103
Oil/Gas	Douglas Creek	1450	4753
Oil/Gas	B/Castle Peak	497	5706

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pН	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"\*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

<sup>\*</sup>Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



API Well Number: 43013512100000

# **CONFIDENTIAL**

# EIGHT POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 08-16 SE SE, SEC 8, T5S, R3W DUCHESNE COUNTY, UTAH

### 3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight lb/ft	Grade	Thread
Conductor	20"	14"	surface	40'	steel	Cond'r	none
Surface	12-1/4"	8-5/8"	surface	480'	24	J-55	STC
Production	7-7/8"	5-1/2"	surface	6260'	15.5	J-55	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	8-5/8"	1,370 psi	2,950 psi	244,000 lb
Production	7-7/8"	5-1/2"	4,040 psi	4,810 psi	248,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 4118' MD

## 4. PROPOSED CEMENTING PROGRAM:

String	Top Bottom	Cement Description	Sacks Vol (ft³)	Excess	Weight (ppg)	Yield (ft³/sk)
Conductor	Conductor0 Construction Grade Cement		Sufficient volumes to grout Conductor			onductor
Surface	0	Class G +2% CaCl2	220	30%	15.8	1.17
Surface	480	+0.25 lb/sk Cello Flake	258	258		1.17
Production	0	0 EXPANDACEM (Class G +additives)		30%	12.5	1.92
Lead 4118		+ 1 lb/sk Granulite TR¼ (LCM)	928 30%		12.5	1.32
Production	Production 4118 EXPANDACEM (Class G +additives)		331	30%	13.4	1.46
Tail	6260	+ 1 lb/sk Granulite TR1/4 (LCM)	483	30%	13.4	1.40

- The 8-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary longstring cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Trona at 2873'MD



# **CONFIDENTIAL**

# EIGHT POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 08-16 SE SE, SEC 8, T5S, R3W DUCHESNE COUNTY, UTAH

## 5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 8", 2000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- A 2000 PSI Working Pressure Annular shall be used
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 2,000 psi BOP schematic diagram.

#### **BOPE TESTING PROCEDURE:**

• The BOPE shall be tested by a professional tester to conform to Onshore Order #2.

### 6. MUD PROGRAM:

#### A. SURFACE HOLE

- The surface hole will be drilled with an air/mist system from 0' to 480'. All cuttings shall be directed to pit.
- A trailer-mounted compressor with a capacity of 2000 CFM will be used. Compressor will have a safety shut-off valve located less than 15 feet from the driller's controls of the rig.
- The rat and mouse holes will be drilled with the air rig after surface casing is cemented.
- The 140 barrel water truck used with the deduster will be the source of kill fluid in the highly unlikely event of pressure being encountered during drilling of the surface hole.
- Operator requests the following variances from Onshore Order 2 part E during drilling of the surface hole. Operator will use air drilling techniques only on surface hole:
  - Operator requests a variance to regulations requiring the blooie line discharge to be 100' from the wellbore. Due to reduced location size, the blooie line discharge will be approximately 75' from the wellbore and securely anchored.
  - Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. A mister shall be on the end of the blooie line.
  - Operator requests a variance to regulations requiring compressors be located in the opposite direction from the blooie line; a minimum of 100' from the wellbore. Due to the reduced location size, the compressors shall be located as close as is reasonable to the opposite direction from the blooie line and 75' from the wellbore.
  - o Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl shall be utilized on the diverter system in place of a BOPE.



# **CONFIDENTIAL**

# EIGHT POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 08-16 SE SE, SEC 8, T5S, R3W DUCHESNE COUNTY, UTAH

#### B. PRODUCTION HOLE

- The production hole shall be drilled with a freshwater polymer system from 480' to 6260'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Diammonium Phosphate (DAP) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 8.3-8.4 lbs/gal.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 10.5 lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- A mud-gas separator shall be available on location.

# C. <u>HAZARDOUS MATERIALS AND CHEMI</u>CALS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities shall NOT be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.



API Well Number: 43013512100000

# **CONFIDENTIAL**

# EIGHT POINT DRILLING PLAN PETROGLYPH OPERATING COMPANY, INC UTE TRIBAL 08-16 SE SE, SEC 8, T5S, R3W DUCHESNE COUNTY, UTAH

## 7. EVALUATION PROGRAM:

Logs: Triple Combo TD to base of surface casing (AIT, DSN, CDL)

Base of surface casing to surface (GR)

Cores: None planned

DST: None planned

Testing: Operator plans no testing until the completion phase of the well.

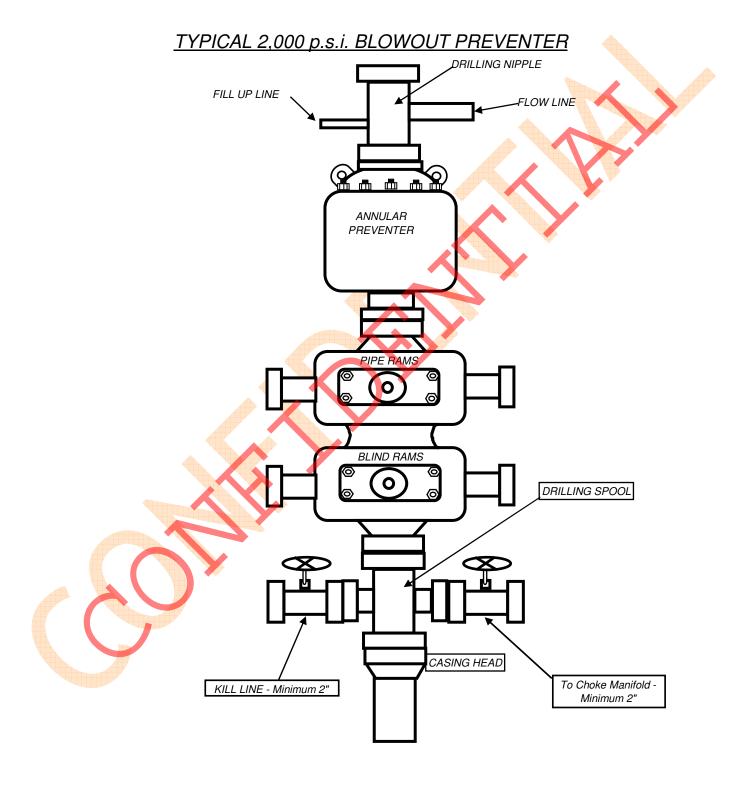
#### 8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

- Operator anticipates Bottom Hole Temperatures below 150°F, the maximum temperature for DAP drilling fluids.
- No H<sub>2</sub>S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 1565 PSI (0.25 PSI/ft gradient).
- This well is NOT in the vicinity of active injection wells. Nearby active injection can cause pressures up to a 0.433 PSI/ft gradient.



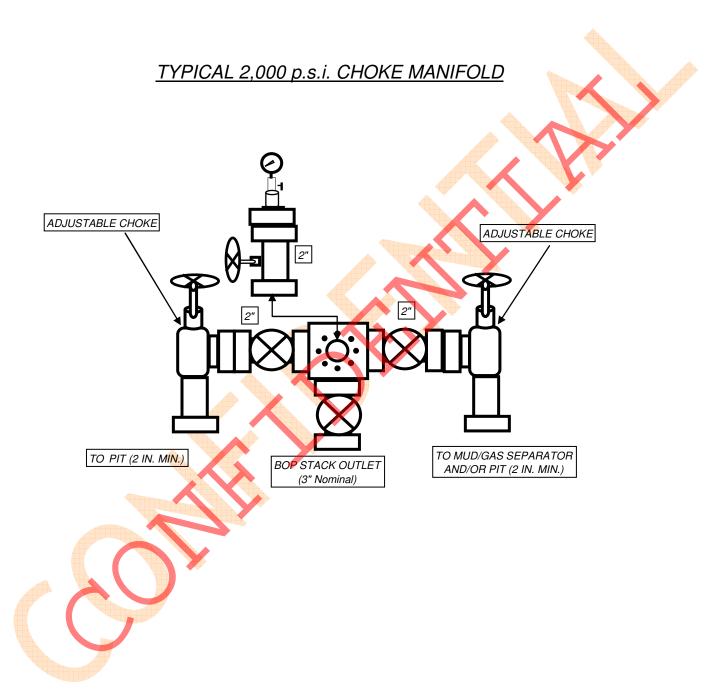
# **CONFIDENTIAL**

EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-16
SE SE, SEC 8, T5S, R3W
DUCHESNE COUNTY, UTAH

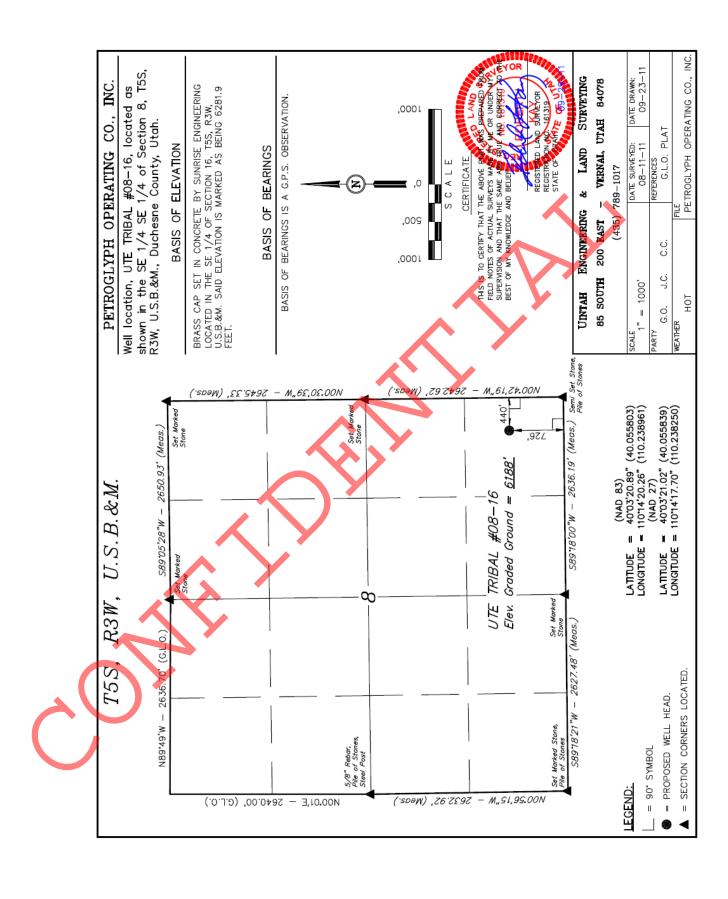


# **CONFIDENTIAL**

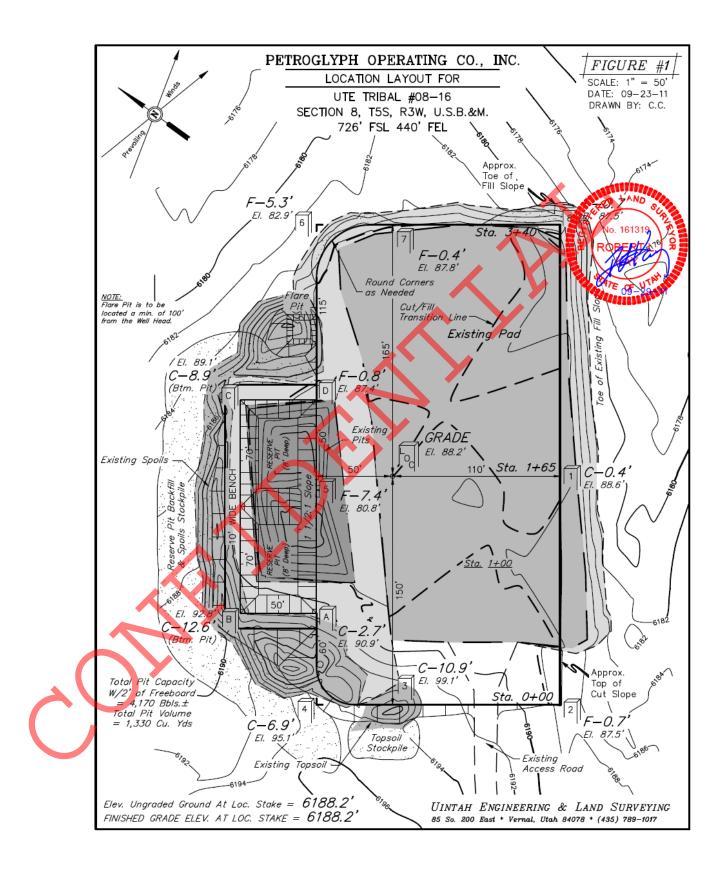
EIGHT POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-16
SE SE, SEC 8, T5S, R3W
DUCHESNE COUNTY, UTAH

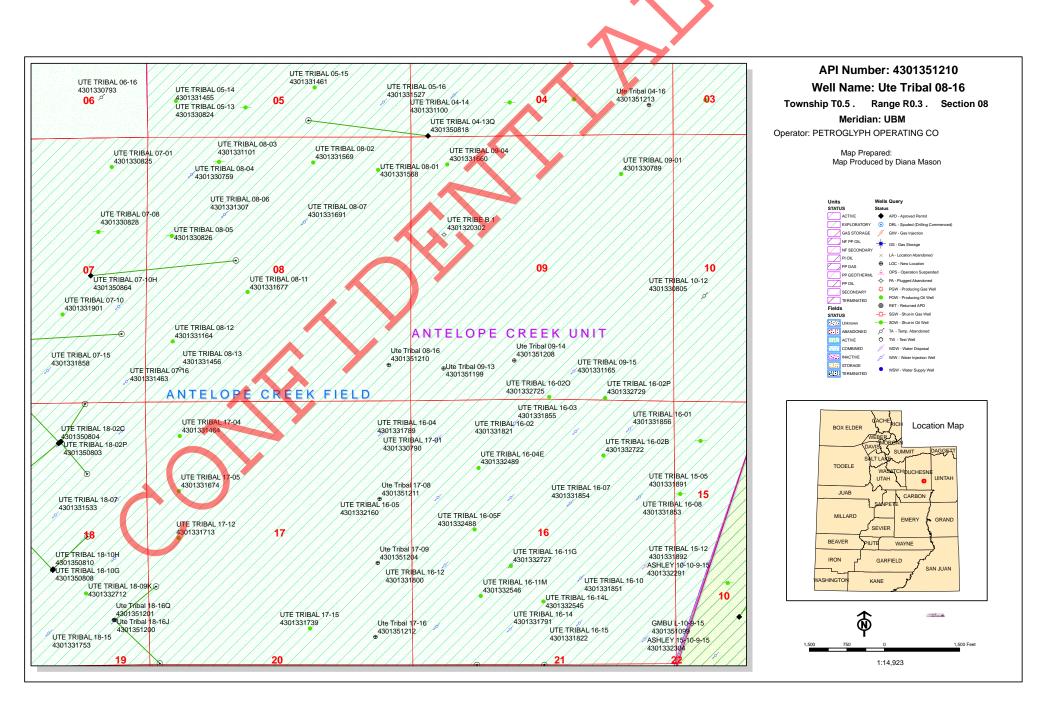












API Well Number: 43013512100000

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 1/31/2012 **API NO. ASSIGNED:** 43013512100000

WELL NAME: Ute Tribal 08-16

**OPERATOR:** PETROGLYPH OPERATING CO (N3800) **PHONE NUMBER:** 435 789-4120

**CONTACT:** Ed Trotter

PROPOSED LOCATION: SESE 08 050S 030W Permit Tech Review:

SURFACE: 0726 FSL 0440 FEL Engineering Review:

BOTTOM: 0726 FSL 0440 FEL Geology Review:

COUNTY: DUCHESNE

**LATITUDE**: 40.05575

UTM SURF EASTINGS: 564903.00

FIELD NAME: ANTELOPE CREEK
LEASE TYPE: 2 - Indian

**LEASE NUMBER:** BIA 14-20-H62-3507

SURFACE OWNER: 2 - Indian

PROPOSED PRODUCING FORMATION(S): CASTLE PEAK

COALBED METHANE: NO

**LONGITUDE**: -110.23904 **NORTHINGS**: 4434223.00

#### LOCATION AND SITING: **RECEIVED AND/OR REVIEWED:** ✓ PLAT R649-2-3. Unit: ANTELOPE CREEK Bond: INDIAN - LP4138153 Potash R649-3-2. General Oil Shale 190-5 R649-3-3. Exception Oil Shale 190-3 **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 214-2 Water Permit: 43-8342 Effective Date: 6/9/2000 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement

R649-3-11. Directional Drill

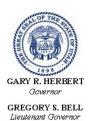
Comments: Presite Completed ENH REC PROJ:

Intent to Commingle

Commingling Approved

Stipulations: 4 - Federal Approval - dmason

API Well No: 43013512100000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

## Permit To Drill

\*\*\*\*\*\*

**Well Name:** Ute Tribal 08-16 **API Well Number:** 43013512100000

Lease Number: BIA 14-20-H62-3507

Surface Owner: INDIAN Approval Date: 2/2/2012

#### Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the CASTLE PEAK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

API Well No: 43013512100000

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
  - Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

## UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OMB No. 1004-0137 Expires July 31, 2010

5. Lease Serial No.

#### 14-20-H62-3507

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMI	T TO DRILL OR REENTI	ER 💆	UTE INDIA	N TRIBE	
	REENTER		BIA 14-20-H 8. Lease Name and W	ell No.	
1b. Type of Well: X Oil Well Gas Well Other	Single Zone X Mu	ltiple Zone	UTE TRIBA	L 08-16	
2. Name of Operator <b>PETROGLYPH OPERATING CO., I</b>	i	9. API Well No. 43-013-51210			
3a. Address P.O. BOX 607, ROOSEVELT, UT 84066		10. Field and Pool, or Exploratory ANTELOPE CREEK			
4. Location of Well (Report location clearly and in accordance At surface 726' FSL, 440' FEL  At proposed prod. Zone	e with constant state requirements.*) SE/SE		11. Sec., T., R., M., or Bl SEC. 8, T5S, U.S.B.&M.		
14. Distance in miles and direction from nearest town or post of 18.15 MILES SOUTHWEST OF M	ffice*		12. County or Parish <b>DUCHESNE</b>	13. State UTAH	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease 640.0	17. Spacii	ng Unit dedicated to this w		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  Map "C"	19. Proposed Depth <b>6200</b>		M/BIA Bond No. on file  LP4138153		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6188.2 FEET GRADED GROUND	22. Approximate date work will start* UPON APPROVAL	2	23. Estimated duration 45 DAYS		
<ol> <li>The following, completed in accordance with the requirem</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Fores SUPO shall be filed with the appropriate Forest Service</li> </ol>	4. Bond to cover the (see Item 20 at t System Lands, the 5. Operator certificar	e operations ove).	ched to this form: unless covered by an existi ation and/or plans as may b		
25. Signature	Name (Printed/Typed) Ed Trotter	RECE JUL 1	IVED Date Jan	uary 20, 2012	
Title Agent	Div		72 8 WINING		
Approved by (Signature)	Date	_			
Jerry Kenczka JUL 0 6 2012					
Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD (	OFFICE	<u>F</u>		
Application approval does not warrant or certify that the applicar conduct operations thereon.	nt holds legal or equitable title to those right			le the applicant to	

CONDITIONS OF APPROVAL AT INCHE

Conditions of Approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. artment or agency of the

MIK- WILL

<sup>\*(</sup>Continued on page 2)



## UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

**VERNAL, UT 84078** 

(435) 781-4400



### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

Petroglyph Operating CO., Inc.

Ute Tribal 08-16

43-013-51210

Location:

**SESE, Sec. 8, T5S, R3W** 

Lease No: 14-20-H62-3507 Agreement:

**Antelope Creek** 

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER:** 

(435) 781-3420

## A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: Ute Tribal 08-16 7/5/2012

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### Additional Stipulations:

- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions as set forth by those owners and/or agencies.

#### General Conditions of Approval:

- A <u>30'</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department and the BLM will be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

Page 3 of 7 Well: Ute Tribal 08-16 7/5/2012

• All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

- The personnel from the Ute Tribe Energy & Minerals Department will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- Production casing cement shall be brought up and into the surface.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet. All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be
  reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.

Page 5 of 7 Well: Ute Tribal 08-16 7/5/2012

The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: Ute Tribal 08-16 7/5/2012

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - o Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
  be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
  reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major
  Events" will be reported in writing within 15 days. "Minor Events" will be reported on the
  Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 7 of 7 Well: Ute Tribal 08-16 7/5/2012

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
  Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
  and all future meter proving schedules. A copy of the meter calibration reports shall be
  submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
  standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
  measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

# BLM - Vernal Field Office - Notification Form

Operator <u>Petroglyph Operating</u> Rig Name/# <u>Craig's /Air rig</u> Submitted By <u>Rodrigo Jurado</u> Phone Number <u>435-722-5302</u>
Well Name/Number <u>Ute Tribal 08-16</u> Qtr/Qtr <u>SESE</u> Section <u>08</u> Township <u>5S</u> Range <u>3W</u>
Lease Serial Number 14-20-H62-3507
API Number43-013-51210
<u>Spud Notice</u> – Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time <u>7/17/2012</u> 8:00 AM ⊠ PM □
Casing — Please report time casing run starts, not cementing times.  Surface Casing Intermediate Casing Production Casing Liner Other
Date/Time AM
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point JUL 1 6 2012 30 day BOPE test Other
Date/Time AM  PM
Remarks We plan to set 40' of 14" conductor. (Sent 7/16/2012 @ 7:15 AM)

Sundry Number: 27920 API Well Number: 43013512100000

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND M			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3507
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In			
	posals to drill new wells, significant reenter plugged wells, or to drill horiz n for such proposals.			7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: Ute Tribal 08-16
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	:0			<b>9. API NUMBER:</b> 43013512100000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500	) , Bosie, ID, 83703		IE NUMBER: i-7674 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0726 FSL 0440 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 8 Township: 05.0S Range: 03.0W Me	eridian: U		STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	CATE NA	TURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	☐ AL	TER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	Сн	IANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	□ со	MMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ FR	ACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	☐ PL	UG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME	☐ RE	CLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		DETRACK TO REPAIR WELL	TEMPORARY ABANDON
7/16/2012	TUBING REPAIR		NT OR FLARE	WATER DISPOSAL
DRILLING REPORT				
Report Date:	WATER SHUTOFF	∟ sı	TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	□ от	HER	OTHER:
We spudded this	COMPLETED OPERATIONS. Clearly sho well on 07/16/2012. We s	set 40'	of 14" conductor.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 27, 2012
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUM</b> 435 722-5302		<b>TITLE</b> Regulatory & Compliance S	рс
SIGNATURE N/A			<b>DATE</b> 7/20/2012	

RECEIVED: Jul. 20, 2012

#### STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES** DIVISION OF OIL, GAS AND MINING

ENTITY	ACTION	FORM
	<del></del>	

Operator:

Petroglyph Operating Company

Operator Account Number: N 3800

Address:

P.O. Box 607

city Roosevelt

zip 84066 state UT

Phone Number: (435) 722-2531

Well 1

Well	Name	QQ	Sec	Twp	Rng	County
Ute Tribal 08-16		SESE	8	5S	3W	Duchesne
Current Entity Number	New Entity Number	Sı	oud Dat	6		ity Assignment ffective Date
cladicia	18639	7.	16/201	2	ור	31 12013
5 TO 10 TO 1	Ute Tribal 08-16  Current Entity  Number	Ute Tribal 08-16  Current Entity New Entity Number Number	Ute Tribal 08-16 SESE  Current Entity New Entity Sp Number Number	Ute Tribal 08-16  Current Entity New Entity Number  Number  SESE 8  Spud Date	Ute Tribal 08-16  Current Entity Number  Number  SESE 8 5S  Spud Date	Ute Tribal 08-16  Current Entity New Entity Number  SESE 8 5S 3W  Spud Date Entity Number

GRRV

UNITULITAL

Well 2

API Number	Wel	l Name	QQ	Sec	Twp	Rng	County
4301351199	Ute Tribal 09-13		swsw	9	5S	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	S	oud Da	te		tity Assignment Effective Date
В	99999	18129	7	/17/201	2	٦١	31 112

Comments: Please add this well to the Ute Tribal 08-16 Tank Battery.

Well 3

API Number	Well	Name	QQ	Sec Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spi	id Date	Ent E	ty Assignment ffective Date
Comments:		- Addition to the second of th			<u>[</u>	

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to prevent VED
- E Other (Explain in 'comments' section)

JUL 2 3 2012

Rodrigo Ju	rado
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Regulatory Compliance Spc. Title

7/20/2012

Date

# Sundry Number: 29109 API Well Number: 43013512100000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH		FORM 9				
			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3507				
SUNDF	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING  SUNDRY NOTICES AND REPORTS ON WELLS  Is form for proposals to drill new wells, significantly deepen existing wells below hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICAT OD PRILL form for such proposals.  In the proposals of DRILL form for Such proposals.  In the proposals of DRILL form for Such proposals.  In the proposals of DRILL form for Such proposals.  In the proposals of DRILL form form form form form form form form		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In				
current bottom-hole depth,	reenter plugged wells, or to drill horizo	deepen existing wells below ontal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK				
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: UTE TRIBAL 08-16				
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	<del></del>		9. API NUMBER: 43013512100000				
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Bosie, ID, 83703		9. FIELD and POOL or WILDCAT: ANTELOPE CREEK				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0726 FSL 0440 FEL			COUNTY: DUCHESNE				
QTR/QTR, SECTION, TOWNS		dian: U	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
,	ACIDIZE	ALTER CASING	CASING REPAIR				
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
8/27/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	✓ FRACTURE TREAT	New construction				
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR		all pertinent details including dates.	depths, volumes, etc.				
On 8/27/2012 Petro and frac the fol 4781-4783, C5.2 5065-5068, 5070-5 5332-5347, E1.1: All perforations wi 22.7 gram charges, will frac using Delta	oglyph Operating Company, lowing: B10: 4512-4524, C: 4839-4845, C6: 4937-494, 6078, 5082-5084, 5087-508, 5740-5744, E1.2: 5766-57 ll be made using Titan 3 1/8 0.42" EHD, 23.54" TTP @ 4 a 140 15# gelled fluid conta	, Inc. plans to perforate 3.2: 4730-4735, C4: 42, 4946-4950, C9.2: 89, D3: 5232-5239, D5: 71 & E3.3: 5873-5875. 3" Perf guns containing spf @ 120* phased. We aining 20/40 mesh sand.	Accepted by the Utah Division of Oil, Gas and Mining				
NAME (PLEASE PRINT)			ine				
Rodrigo Jurado SIGNATURE	435 722-5302	DATE	Pro .				
N/A		8/21/2012					

Sundry Number: 30279 API Well Number: 43013512100000

	STATE OF UTAH			FORM 9
	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		<b>;</b>	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3507
	RY NOTICES AND REPORTS			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.	y deep ontal l	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 08-16
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	co			9. API NUMBER: 43013512100000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste	500 , Bosie, ID, 83703		NE NUMBER: 3 685-7685 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0726 FSL 0440 FEL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SESE Section: 0	HIP, RANGE, MERIDIAN: 8 Township: 05.0S Range: 03.0W Mer	idian: \	U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	ATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT	NEW CONSTRUCTION
9/20/2012	OPERATOR CHANGE	☐ F	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	☐ F	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
_	TUBING REPAIR		ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION		OTHER	OTHER:
The date of t	COMPLETED OPERATIONS. Clearly show	II wa	s 09/20/2012.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 28, 2012
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUM</b> 435 722-5302	BER	TITLE Regulatory & Compliance S	рс
SIGNATURE N/A			<b>DATE</b> 9/27/2012	

Sundry Number: 31226 API Well Number: 43013512100000

	STATE OF UTAH		FORM 9
			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3507
SUNDF	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING  SUNDRY NOTICES AND REPORTS ON WELLS  In use this form for proposals to drill new wells, significantly deepen existing wells below to bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION PERMIT TO DRILL form for such proposals.  E OF WELL  Vell  IE OF OPERATOR: OGLYPH OPERATING CO  IRESS OF OPERATOR: OGLYPH OPERATING CO  IRES OF OPERATOR: OGLYPH OPERATING CO  IRED OF SUBMISSION  TYPE OF ACTION  TYPE OF ACTION  TYPE OF ACTION  TYPE OF ACTION  IN TYPE OF ACTION  OGLYPH OPERATING CO  IN TYPE OF ACTION  OGLYPH OPERATING CO  IN TYPE OF ACTION  OGLYPH OPERATING CO  IN TYPE OF ACTION  OGLYPH OPERATOR  OGLYP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
current bottom-hole depth,	reenter plugged wells, or to drill horizonta		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: UTE TRIBAL 08-16
2. NAME OF OPERATOR: PETROGLYPH OPERATING O	00		9. API NUMBER: 43013512100000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste			9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNS		: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
, , , , , , , , , , , , , , , , , , ,	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN ✓	FRACTURE TREAT	NEW CONSTRUCTION
9/10/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Nopon Suite			OTHER:
			<u> </u>
On 8/23/2012 Petr Surface. We perfo 5332-47, 5232-39, 4937-42, 4839-45 following intervals sand 5332-534 5232-5239 w/ 470 504 Bbls of fluid fluid cont 20,040 37,500#'s of sand 4 3 1/8" perf guns con used was 20/40	roglyph Operating ran GR/CBL orated the following: 5873-75, 5087-89, 5082-84, 5072-78, 4781-83, 4730-4735 & 451	and found ETOC @ 5766-71, 5740-44, 5, 5065-68, 4946-50, 2-24. We frac'd the lid cont 27,310#'s of 5,480#'s of sand of sand 5065-5089 w/ 4950 w/ 373 Bbls of 4 Bbls of fluid cont cont 42,090#'s of sand c'z" EHD, 23.54" TTP, (2) vas cleaned out to PBT was PTP 9/20/2012	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 25, 2012  and. Perf guns used were Titan 2 4 spf, @ 120* phased. Sand
Rodrigo Jurado	435 722-5302	Regulatory & Compliance S	рс
SIGNATURE N/A		<b>DATE</b> 10/19/2012	

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING

N NE REPORT	FORM 8	3
14 20, 7 62 3 50	NUMBER:	. 4
6 IE INDIAN STATE OF THE	AAC:	

			VIOI	011 01	OIL, V		AIAD IVI		,					4 0	62	3 <b>7</b> 67		-IV.
WELL	COMF	LETI	ON	OR F	RECO	MPL	ETIOI	N RE	POR	TANE	LOG		6. IF	INDIAN, Jte Ind	Acet I		I ME	
1a. TYPE OF WELL:		OIL WEI	L <b>Z</b>	] {	SAS C	]	DRY [	]	ОТН	ER	· · · · · · · · · · · · · · · · · · ·		7. UN	VIT or CA	AGRE	EMENT NA	ME	
b. TYPE OF WORK:	1															-4650 NUMBER:		
	HORIZ. LATS.	DEE EN	P		RE- NTRY	]	DIFF. RESVR.	]	ОТН	ER				Jte Tr				
2. NAME OF OPERATE Petroglyph		na Com	יחפמי	v. Inc.										13013		10		
3. ADDRESS OF OPE	<del></del>	.5	10 0.1.1	,,						PHONE	NUMBER:					OR WILDO	CAT	
P.O. Box 60			y Ro	oseve	lt	STATE	UT z	⊪ 840	66 <b>R</b>	ECEN	722-	2531		Antelo				
4. LOCATION OF WE AT SURFACE:	,		FEL										1		, SECT V:		ISHIP, RANGE	•
		•			<del>-</del>				יטא	V 19 ;	2012		SE	SE	8	5S	3W	
AT TOP PRODUC	CING INTERVA	L REPORT	FED BEL <b>7</b>	.ow: 6	70' FS	٠.		מ	IV OF	)# C40 •								
AT TOTAL DEPTH	∺: 653' F	SL, 65	<b>6</b> ′ FE	L B	146	of t	RW			)nl,gasa	MINING		- I	ounty uche:			13. STATE	JTAH
7/16/2012		DATE T.D 8/5/201	12			/2012	?	А	BANDON	ED 🗌	READY TO	PRODUC	E 🗸		VATION 203'	IS (DF, RKE RKB	3, RT, GL):	
18. TOTAL DEPTH:	0,10		1	19. PLUG	BACK T.D.				20. IF N	MULTIPLE CO	OMPLETION	S, HOW I	MANY? *	21. DEP	TH BRI		)	
22 TVDF FLECTDIC	TVD 6,15		041.10	CC DUN /	Culturality and a		6,096		<u> </u>	Too		****				TV	D	<del></del>
22. TYPE ELECTRIC				,						23. WAS WEL	L CORED?		NO	7	YES T	7 (Sub	omit analysis)	
ACTR, Borel	hole Volu	ıme, Si	DDSI	N, Cer	nent B	ond L	og			WAS DST			NO		YES [	<b>=</b>	omit report)	
										DIRECTIO	NAL SURVE	Y?	NO		YES 🗸	(Sub	omit copy)	
24. CASING AND LIF	NER RECORD	(Report a	ll string:	s set in w	ell)													
HOLE SIZE	SIZE/GRAI	DE \	VEIGHT	(#/ft.)	TOP (I	MD)	воттом	(MD)		EMENTER EPTH	CEMENT NO. OF S		SLUF VOLUME		CEM	ENT TOP *	* AMOUNT	PULLE
20"	16" ქ	-55	75	5	0		54										Conc	lucto
12.25"	8.625" J	-55	24	4	0		52	2			G	350	7	2		0		
7.875"	5.5"	l-55	15.	.5	0		6,1	51			G	790	24	14	ļ	0	CI	3L
															-	*	-	
													<u> </u>		-			
25. TUBING RECOR	RD											<del> </del>	<u> </u>		<u> </u>			<del></del>
SIZE	DEPTH S	ET (MD)	PACK	ER SET (	MD)	SIZE	<u> </u>	DEPTH	SET (MD	PACKE	R SET (MD)	T	SIZE	1	DEPTH	SET (MD)	PACKER S	ET (MD
2.875	5,8	79																
26. PRODUCING IN	TERVALS									27. PERFO	RATION RE	CORD						
FORMATION	NAME	TOP (	MD)	<del> </del>	OM (MD)		(TVD)		M (TVD)		AL (Top/Bot -		SIZE	NO. HO			DRATION STA	rus
(A) Green Riv	/er	4,5	12	5,	875	4,5	504	5,8	868	4,512	5	,875	0.42	32	8 (	Open 🗸	Squeezed	ᆜ
(B)				ļ											(	Open	Squeezed	ᆜ_
				i											(	Open	Squeezed	<u> </u>
(C)														l	- 10	3 I I	Squeezed	<u>ப</u>
											· .			L		Open		
(D)	RE, TREATME	NT, CEME	NT SQU	EEZE, ET	c.			·								Open		
(D) 28. ACID, FRACTUR	RE, TREATME Interval	NT, CEME	NT SQU	EEZE, ET	c.				AM	OUNT AND	TYPE OF MA	TERIAL			L	Open		
(D)  28. ACID, FRACTUF  DEPTH I	INTERVAL	NT, CEME				lta 14	0 15# (	Gelled		OUNT AND T			's of 20	0/40 n	<b>!</b>			
(D) 28. ACID, FRACTUR	INTERVAL	NT, CEME				lta 14	0 15# (	Gelled					's of 20	0/40 n	<b>!</b>			
28. ACID, FRACTUF DEPTH I 4,512'-5,875	INTERVAL					lta 14	0 15# (	Gelled					's of 20	0/40 n	<b>!</b>	sand.		
(D)  28. ACID, FRACTUF  DEPTH I	INTERVAL					lta 14	0 15# (	Gelled					's of 20	0/40 n	<b>!</b>	sand.	ELL STATUS:	

(CONTINUED ON BACK)

(5/2000)

31. INITIAL PRODUCTION
------------------------

#### INTERVAL A (As shown in item #26)

DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION	OIL – BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
9/20/2012	<u>.</u>	10/12/201	12	] 2	24	RATES: →	125	64	150	Rod Pump
CHOKE SIZE: 38/64	TBG. PRESS. 55	CSG. PRESS. 150	API GRAVITY 40.50	BTU – GAS 1	1	24 HR PRODUCTION RATES: →	OIL - BBL: 125	GAS - MCF: 64	WATER - BBL: 150	INTERVAL STATUS: Open
				INT	ERVAL B (As show	wn in item #26)				····································
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL BBL:	GAS – MCF:	WATER BBL:	INTERVAL STATUS:
	- <del>1.</del>	-		INT	ERVAL C (As show	wn in item #26)	•		<u>.</u>	
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS MCF:	WATER BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:
				INT	ERVAL D (As sho	wn in item #26)				
DATE FIRST PR	ODUCED:	TEST DATE:		HOURS TESTER	D:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS ~ MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG, PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth
				Trona Mahogany B Marker X Marker B Lime Castle Peak Basal Carbonate	2,865 3,014 4,112 4,603 5,137 5,710 6,107

35. ADDITIONAL REMARKS (Include plugging procedure)

All Frac and Perf info is condensed. Please see NOI and Subsequent Frac Sundry for detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.								
NAME (PLEASE PRINT) Rodrigo Jurado	TITLE Regulatory Compliance Spc.							
SIGNATURE AND SHE	DATE 11/9/2012							

This report must be submitted within 30 days of

- · completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- \* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\*ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

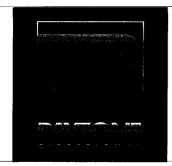
Phone: 801-538-5340

Fax: 801-359-3940

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

# REPORT OF WATER ENCOUNTERED DURING DRILLING

	_		al 08-16		<del></del>		
API number: _			•		• 1		
Well Location:	QQ <u>SESE</u> Se	ction <u>08</u>	Township <u>55</u> Range _	₹ <u>₩</u> Cou	nty <u>Duchesine</u>		
Well operator:	Petroglyph O	perating Com	pany, Inc.				
Address:	P.O. Box 607						
	city Roosevell		state UT zip 84066	Ph	one: (435) 722-2531		
Drilling contract	ctor: Crai	as Ria	#6				
Address:		ر ل					
	city Uzru	al	state Ut, zip	Ph	one: 435-781-1366		
Water encount							
Г	DEP		,		OLIALITY.		
-	FROM	ТО	VOLUME (FLOW RATE OR HE.	AD)	QUALITY (FRESH OR SALTY)		
Ī	40'	515'	No Water				
ļ.							
-							
-							
Ĺ							
Formation tops	· 1		2		2		
(Top to Bottom)							
	7						
	10		11				
If an analysis h	as been made	of the water	encountered, please attac	n a copy o	of the report to this form.		
	-	_	ete to the best of my knowledge	_	_		
NAME (PLEASE PRIN	17 LES 1	arusw	orth	TITLE	istrict Manage		
SIGNATURE_	CUS For	usery.	16	DATE 7	-31-12		



Job Number: UT121017

Company: Petroglyph

Lease/Well: Ute Tribal 08-16

Location: Sec 8, T5S, R3W

Rig Name: Aztec 673

RKB: 6202

G.L. or M.S.L.: 6187 GL

State/Country: UT

Declination: 11.26

**Grid: True** 

File name: C:\WINSERVE\UT121017.SVY

Date/Time: 05-Aug-12 / 10:19

**Curve Name: Acutal** 

#### **Payzone Directional**

#### WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method Vertical Section Plane 253.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured Incl		Drift	True			Vertical	CLOSURE		Dogleg
Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT	E-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
557.00	.48	165.24	556.99	-2.26	.59	.09	2.33	165.24	.09
649.00	.75	195.48	648.99	-3.21	.53	.43	3.25	170.59	.45
741.00	1.76	244.35	740.97	-4.40	90	2.15	4.49	191.59	1.51
832.00	3.38	259.42	831.87	-5.50	-4.80	6.20	7.30	221.12	1.91
924.00	4.09	260.56	923.68	-6.53	-10.70	12.14	12.54	238.59	.78
1016.00	4.35	264.65	1015.43	-7.40	-17.41	18.81	18.92	246.98	.43
1140.00	4.31	264.82	1139.07	-8.26	-26.73	27.98	27.98	252.84	.03
1265.00	4.26	265.22	1263.72	-9.07	-36.04	37.12	37.16	255.88	.05
1389.00	4.53	251.86	1387.36	-10.98	-45.28	46.51	46.59	256.37	.85
1513.00	4.57	251.25	1510.97	-14.09	-54.61	56.35	56.40	255.53	.05
1637.00	4.70	249.49	1634.57	-17.46	-64.05	66.35	66.39	254.75	.16
1762.00	4.39	249.18	1759.17	-20.95	-73.32	76.24	76.25	254.05	.25

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L ( Distance FT	O S U R E Direction Deg	Dogleg Severity Deg/100
1886.00 2010.00	4.04 3.52	245.31 251.99	1882.84 2006.57	-24.46 -27.46	-81.72 -89.31	85.30 93.44	85.31 93.44	253.34 252.91	.36 .55
2134.00 2258.00	3.16 3.34	246.06 258.54	2130.36 2254.16	-30.03 -32.13	-96.06 -102.72	100.64 107.63	100.64 107.63	252.64 252.63	.40 .59
2382.00	3.12	253.62	2377.96	-33.80	-109.50	114.60	114.60	252.84	.29
2506.00 2630.00	3.65 3.34	264.43 258.98	2501.75 2625.52	-35.14 -36.21	-116.66	121.84	121.84	253.24	.67
2754.00	3.34 4.04	255.16	2025.52 2749.26	-38.02	-124.14 -131.91	129.30 137.26	129.31 137.28	253.74 253.92	.37 .60
2878.00	3.73	253.93	2872.98	-40.26	-140.00	145.66	145.68	253.96	.26
3002.00	3.82	251.64	2996.71	-42.67	-147.80	153.82	153.84	253.90	.14
3126.00	4.22	256.78	3120.40	-45.02	-156.16	162.50	162.52	253.92	.43
3250.00 3374.00	4.04 3.56	251.95 259.55	3244.08 3367.81	-47.41 -49.47	-164.76 -172.70	171.42 179.61	171.44	253.95	.32
3498.00	3.60	261.09	3491.57	-49.47 -50.77	-172.70 -180.33	187.29	179.64 187.34	254.02 254.28	.56 .08
3622.00	3.38	256.21	3615.34	-52.24	-187.72	194.79	194.86	254.45	.30
3746.00	2.50	264.65	3739.17	-53.36	-193.97	201.09	201.17	254.62	.79
3870.00	2.59	274.10	3863.05	-53.42	-199.45	206.36	206.48	255.01	.35
3994.00 4119.00	1.93 1.41	283.28 266.05	3986.95 4111.90	-52.74 -52.36	-204.28 -207.86	210.77 214.09	210.98	255.52	.61
4243.00	.83	241.80	4235.88	-52.89	-210.18	216.46	214.36 216.73	255.86 255.88	.57 .59
4367.00	1.05	229.05	4359.86	-54.06	-211.83	218.38	218.61	255.68	.24
4491.00	1.10	212.13	4483.84	-55.81	-213.32	220.31	220.50	255.34	.26
4615.00	.22	292.99	4607.83	-56.73	-214.17	221.40	221.55	255.17	.88
4739.00 4864.00	.66 .40	287.24 252.56	4731.83 4856.82	-56.42	-215.07	222.17	222.35	255.30	.36
4864.00	.40	232.30	4800.82	-56.34	-216.17	223.20	223.39	255.39	.32
4989.00	.48	194.12	4981.82	-56.98	-216.72	223.91	224.08	255.27	.35
5113.00	.92	199.70	5105.81	-58.42	-217.18	224.77	224.90	254.94	.36
5237.00 5361.00	1.27 1.32	194.56 182.73	5229.79 5353.75	-60.68 -63.44	-217.86	226.08	226.16	254.44	.29
5485.00	1.63	169.59	5477.71	-66.60	-218.28 -218.02	227.29 227.97	227.31 227.97	253.79 253.01	.22 .37
5609.00	.48	118.62	5601.69	-68.59	-217.25	227.81	227.82	252.48	1.11
5733.00	.22	175.62	5725.69	-69.07	-216.78	227.50	227.51	252.33	.33
5858.00	.48	170.52	5850.69	-69.83	-216.67	227.62	227.65	252.14	.21
5982.00	.66	182.38	5974.68	-71.05	-216.62	227.92	227.97	251.84	.17

Page 2
Acutal File: C:\WINSERVE\UT121017.SVY

Measured	Incl	Drift	True		E-W FT	Vertical Section FT	CLOSURE		Dogleg
Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT			Distance FT	Direction Deg	Severity Deg/100
6098.00	.79	177.86	6090.67	-72.52	-216.61	228.35	228.43	251.49	.12
Projection T 6160.00	.79	177.86	6152.67	-73.37	-216.58	228.57	228.67	251.28	.00